

Service Manual

Digital Minilabs



d-lab.2:
8060/260,
8060/803, 8060/804,
8060/270, 8060/272,
8060/157 + 8060/255

d-lab.2plus:
8060/261
8060/813, 8060/814
8060/271, 8060/273
8060/158 + 8060/255



netlab.2plus:
8060/505

Preinstallation

Order number	DD+18060A192D0
Edition	2005-05-01
Version	English, 04100_01

Modification History

Version	Edition	Modifications
04100_00	2004-10-01	Combination of the Service Manuals – Preinstallation for the machines d-lab.2, d-lab.2plus, and netlab.2plus; Additions and update for the order aid
04100_01	2005-05-01	Migration AgfaPhoto

© 2005 AgfaPhoto GmbH. Alle Rechte vorbehalten.

No part of these instructions may be reproduced, copied, or transmitted in any form or by any means without prior written permission by AgfaPhoto GmbH.

AgfaPhoto is used under license of Agfa-Gevaert AG

Contents

1	General	1
1.1	Validity of this documentation	1
1.2	Preparation by the Customer.....	1
1.3	Measures by the AgfaPhoto Technician	1
2	Machine Dimensions and Weight	2
2.1	Machine Dimensions and Weight, Packed.....	2
2.2	Machine Dimensions, Unpacked.....	3
2.3	Weight, Unpacked.....	6
3	Transport	7
4	Operation Site	7
4.1	Separation of the Food Section	7
4.2	Room Requirements.....	7
4.3	Required Space for Operation, Maintenance, and Service.....	8
4.4	Room Lighting	9
4.5	Water Connection, Cleaning Sink.....	9
4.6	Chemicals.....	10
4.6.1	Legal Regulations.....	10
4.6.2	Safety Notes	10
4.7	Emissions during Operation	11
4.8	Air Conditioning.....	11
4.8.1	Air Conditioning System	11
4.8.2	Room ventilation	11
4.8.3	Connection of an Exhaust on the Laser Exhaust Duct (only for machines with gaslaser)	12
4.9	Operating Conditions.....	13
4.10	Conditions for Storage and Transport.....	13
4.11	Network Connection	13
5	Power Supply.....	14
5.1	On-Site Connections.....	14
5.2	Connection Values, Connection Voltages, Connection Types	15
5.3	Fuse Protection	16
5.4	Grounding / Earth Connection.....	16
6	Checklist	17
6.1	Machine.....	17
6.2	Delivery and Transport	17
6.3	Supply Facilities.....	18
6.4	Training	20
6.5	Consumables.....	21
6.6	Accessories / Hardware / Software	21
6.7	Preinstallation – Customer	23
6.7.1	Supply systems – contractors	23
6.7.2	Ordered consumables	24
6.7.3	Additional parts / hardware / software, ordered	24
6.7.4	Scheduled installation date.....	24
7	Ordering Aid	25
7.1	Ordering Aid d-lab.2/d-lab.2plus – Features and Accessories for 'basic' and 'select' Models.....	25
7.2	Ordering Aid d-lab.2	26

7.3	Ordering Aid d-lab.2plus.....	30
7.4	Order Aid d-lab.2 & d-lab.2plus special version for 70mm film	34
7.5	Ordering Aid netlab.2plus basic	35
7.6	Ordering Aid for Network-Connected Image Processing Systems on the Minilab with Remote Service.....	36
7.7	Operation Manuals.....	37
7.8	Consumables	37
8	Technical Data.....	41
8.1	Machine versions.....	41
8.2	Complete System.....	41
8.3	Main Computer.....	45
8.4	Prescanner / Scanner Applies only to d-lab.2/2plus.....	46
8.5	Printer.....	47
8.6	Paper Processor	48
8.7	Heat Emission.....	49
8.8	Other Data	49
9	Index.....	50



1 General

1.1 Validity of this documentation

The Service Manual Preinstallation applies to the following machines:

Machines with gas laser:

d-lab.2	type 8060/260
d-lab.2plus	type 8060/261

Machines with solid state laser:

d-lab.2 select	type 8060/803 and type 8060/804
d-lab.2 basic	type 8060/270 and type 8060/272
d-lab.2 (70mm)	type 8060/157 + 8060/255
d-lab.2plus select	type 8060/813 and type 8060/814
d-lab.2plus basic	type 8060/271 and type 8060/273
d-lab.2plus (70mm)	type 8060/158 + 8060/255
netlab.2plus basic	type 8060/505

1.2 Preparation by the Customer

The preinstallation is under the responsibility of the customer as well as of an authorized local electrician. They must provide for a smooth installation by carrying out the following preliminary jobs in the given order:

- Preinstallation jobs carried out with care and completely terminated.
- All connections and facilities checked.
- Checklist (see ⇨ further back) fully completed and returned to the AgfaPhoto Service about two weeks before the installation.

1.3 Measures by the AgfaPhoto Technician

The AgfaPhoto Technician performs the following assignments at the agreed time:

- Installation of the machine
- Mixing and filling in the chemistry (in collaboration with the customer and/or operator).
- Mechanical and electrical functional tests of the machine.
- Production check
- Brief introduction of the handling for the customer or operator. Explanation of the measures required in case of problems.

2 Machine Dimensions and Weight

2.1 Machine Dimensions and Weight, Packed

The shipment comprises of several boxes:

Applies to d-lab.2

	Length	Width	Height	Weight
Printer	1,560 mm	1,130 mm	1,840 mm	614 kg
Paper Processor	1,870 mm	1,170 mm	1,710 mm	544 kg
Accessory Box:	1,200 mm	800 mm	1,000 mm	approx. 50 kg

Applies to d-lab.2plus

	Length	Width	Height	Weight
Printer	1,560 mm	1,130 mm	1,840 mm	637 kg
Paper Processor	1,870 mm	1,170 mm	1,710 mm	544 kg
Accessory Box:	1,200 mm	800 mm	1,000 mm	approx. 50 kg

Applies to netlab.2plus

	Length	Width	Height	Weight
Printer	1,560 mm	1,130 mm	1,840 mm	540 kg
Paper Processor	1,870 mm	1,170 mm	1,710 mm	540 kg
Accessory Box:	1,200 mm	800 mm	1,000 mm	approx. 50 kg

2.2 Machine Dimensions, Unpacked

Applies to d-lab.2

Printer

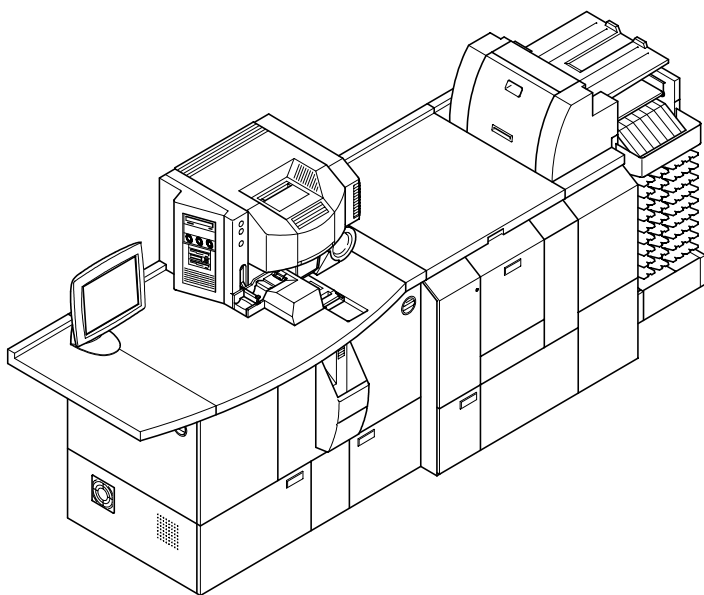
- Length: 1,280 mm
- Width: Applies to d-lab.2 with gas laser (Printer type 8060/150)
 - 770 mm without table
 - 870 mm with mounted table
 - 1,010 mm with film collecting box and laser exhaust

Applies to d-lab.2 with solid state laser (Printer type 8060/155 and 8060/157)

- 770 mm without table
 - 870 mm with mounted table
 - 920 mm with film collecting box
- Height: 1,530 mm

Paper Processor

- Length: 1,160 mm (incl. sorter 1560 mm)
- Width: 880 mm
- Height: 1,450 mm (opened 1,860 mm)



G_GG201

Complete machine

- Length: 2,840 mm (incl. Sorter)
 - + 350 mm optional working table
- Width: Applies to d-lab.2 with gas laser (type 8060/260)
 - 1,010 mm with film collecting box and laser exhaust

Applies to d-lab.2 with solid state laser

(Type 8060/803, 8060/804, 8060/270, 8060/272 and 8060/157+8060/255)

- 920 mm with film collecting box
- Height: 1,530 mm

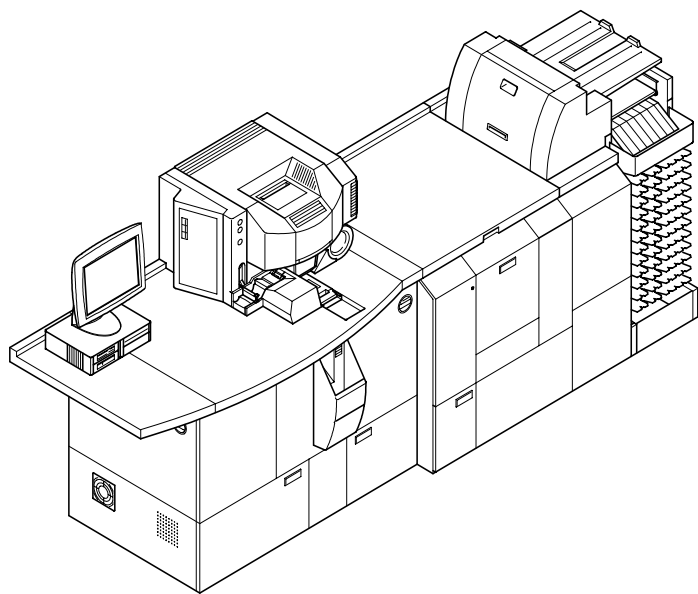
Applies to d-lab.2plus

Printer

- Length: 1,280 mm
 - Width: Applies to d-lab.2plus with gas laser (Printer type 8060/151)
 - 770 mm without table
 - 870 mm with mounted table
 - 1,010 mm with film collecting box and laser exhaust
 - Height: 1,530 mm
- Applies to d-lab.2plus with solid state laser (Printer type 8060/156 and 8060/158)
- 770 mm without table
 - 870 mm with mounted table
 - 920 mm with film collecting box

Paper Processor

- Length: 1,160 mm (incl. sorter 1560 mm)
- Width: 880 mm
- Height: 1,450 mm (opened 1,860 mm)



G_GG101

Complete machine

- Length: 2,840 mm (incl. Sorter)
 - + 350 mm optional working table
 - Width: Applies to d-lab.2plus with gas laser (type 8060/261)
 - 1,010 mm with film collecting box and laser exhaust
 - Height: 1,530 mm
- Applies to d-lab.2plus with solid state laser
(type 8060/813, 8060/814, 8060/271, 8060/273 and 8060/158+8060/255)
- 920 mm with film collecting box

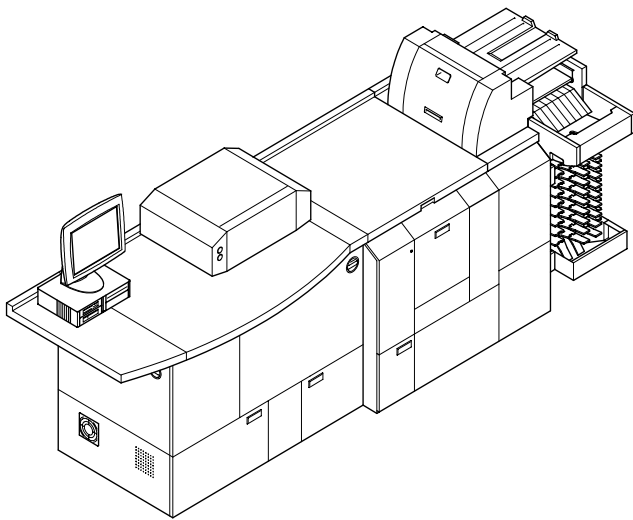
Applies to netlab.2plus

Printer

- Length: 1,280 mm
- Width: 770 mm without table
870 mm with mounted table
- Height: 1,450 mm mm (with Monitor 1500mm)

Paper Processor

- Length: 1,160 mm (incl. sorter 1560 mm)
- Width: 880 mm
- Height: 1,450 mm (opened 1,860 mm)



G_GG101b

Complete machine

- Length: 2,840 mm (incl. Sorter)
+ 350 mm optional working table
- Width: 770 mm without table
870 mm with mounted table
1060 mm at the sorter
- Height: 1,500 mm (with monitor)

2.3 Weight, Unpacked

Applies to d-lab.2

Complete machine:	empty:	approx. 910 kg
	filled:	approx. 1,055 kg

Printer part:		approx. 500 kg
---------------	--	----------------

Paper Processor part:	empty	approx. 410 kg
	filled	approx. 555 kg

Applies to d-lab.2plus

Complete machine:	empty:	approx. 922 kg
	filled:	approx. 1,067 kg

Printer part:		approx. 512 kg
---------------	--	----------------

Paper Processor part:	empty	approx. 410 kg
	filled	approx. 555 kg

Applies to netlab.2plus

Complete machine:	empty:	approx. 855 kg
	filled:	approx. 1,000 kg

Printer part:		approx. 445 kg
---------------	--	----------------

Paper Processor part:	empty	approx. 410 kg
	filled	approx. 555 kg

3 Transport

Printer and Paper Processor are supplied separately and can be pushed separately to the installation site. The following prerequisites must be checked and satisfied prior to delivery:

- Doors at least 0.95 m wide and 1.85 m high

4 Operation Site

4.1 Separation of the Food Section

**CAUTION!**

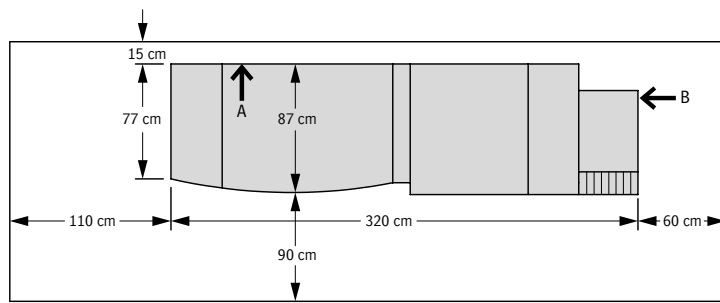
Food must not be contaminated by photo-chemicals, or the waste or the emissions thereof (risk of poisoning).

The operation site of the Minilab must be kept separate from the sales and stock area for foods and snacks, e.g. by a separating wall or facilities having a similar effect.

4.2 Room Requirements

- Room height at least 2.15 m (for removal of racks)
- Minimum floor load capacity 500 kg/m²
- The floor and the walls should be easy to clean
- Floor conditions:
 - preferably waterproof concrete
 - resistant to water and photo-chemicals
- even (no inclination, uneven spots, etc.)

4.3 Required Space for Operation, Maintenance, and Service



G_GG129

- A Hot air extraction (for laser exhaust = 220 m³/h
(only machines with Gaslaser:
d-lab.2 Type 8060/260
d-lab.2plus Type 8060/261)
- B Power connection

The following free space must be reserved for operation, maintenance, and service:

- Complete floor space: 4.90 m x 1.82 m, approx. 9 m²
- Free space around the machine (for operation):
 - Left: 110 cm
 - Right: 60 cm
 - Front: 90 cm
 - Rear: 15 cm

Note

Installation and Service require a distance from the wall of approx. 60 cm.

Note

The power connection for the machine is located on the Paper Processor (B).

Furthermore storage space is required for photo-paper and photo-chemicals. Storage conditions:

- All photographic papers must always be stored in a cool and dry place. An ideal storage temperature is between +2 °C and +10 °C. Storage at 20 °C is possible for a few days without any problems. Storage temperatures above 30 °C should be avoided as they will cause visible changes after only a few days.
- Opened packages have to be stored at a relative humidity of 50-60%.

Loading the paper in paper magazines requires a darkroom or a comparable facility (e.g. dark-tent).

4.4 Room Lighting

The room must be sufficiently illuminated and – if there is no daylight available – a light source comparable to daylight must be provided to be able to evaluate the color rendering in the prints.

The use of daylight fluorescent lamps is recommended (400-1,000 Lux).

Direct sunlight must be avoided.

The maximum illumination of 10,000 Lux must not be exceeded.

4.5 Water Connection, Cleaning Sink

Water connection and cleaning sink on the operation site are required for mixing the chemical solutions and for cleaning routines. We also recommend to provide for a warm water connection (approx. 30 °C), however, this is not a must.

The Minilab does not need a direct water connection, but this option is an available accessory (order number see ⇒ *Ordering Aid / Optional Accessories*).

4.6 Chemicals

4.6.1 Legal Regulations

The machine is subject to the legal regulations for water. Make sure that the following conditions can be satisfied:

- Chemicals must not be drained into the public sewage system.
- Check whether residual substances can be avoided, reduced or recycled.
- All photographic solutions, chemical filter cartridges, as well as plastic containers with harmful residues are considered hazardous waste and must be disposed of in compliance with legal regulations.
- Keep exhausted chemicals in suitable containers until their final disposal.
- When storing exhausted processing solutions, ensure that no waters are polluted, e.g. by unintentional leakage.

Note

The regulations for handling and correct disposal of chemicals vary from country to country. Information about the regulations in force can be obtained from:

- the country's authorities in charge;
- the nearest AgfaPhoto subsidiary.

4.6.2 Safety Notes



CAUTION!

In the working area of the machine there are some slightly poisonous, irritating and caustic substances. The owner (employer)

- has to elaborate operation instructions for the handling of dangerous substances and
- provides for the instruction of his staff at least once a year;
- ensures sufficient ventilation: The air in industrial workrooms should be exchanged at least eight to ten times per hour.

4.7 Emissions during Operation

Photochemical solutions may discharge gases into the air. Some gases have a very low odor level. In unfavorable cases this may result in bad odor although the maximum working site concentration (max. value) has not yet been reached. Bad odors may be avoided by sufficient room ventilation and/or air conditioning.

4.8 Air Conditioning

4.8.1 Air Conditioning System

During operation the minilab produces heat (details see ⇒ *Technical data*)

Machines with gas laser: appr. 5.500 kcal/h

d-lab.2	Type 8060/260
d-lab.2plus	Type 8060/261

Machines with solid state laser: appr. 4.640 kcal/h

d-lab.2 select	Type 8060/803 and Type 8060/804
d-lab.2 basic	Type 8060/270 and Type 8060/272
d-lab.2 (70mm)	Type 8060/157 + 8060/255
d-lab.2plus select	Type 8060/813 and Type 8060/814
d-lab.2plus basic	Type 8060/271 and Type 8060/273
d-lab.2plus (70mm)	Type 8060/158 + 8060/255
netlab.2plus basic	Type 8060/505

Therefore we recommend to install air conditioning, which guarantees for the required room climate (room temperature and humidity) (see ⇒ sections *Room ventilation* and *Operating conditions*).

The laser exhaust (only d-lab.2 with gas laser, Type 8060/260, and d-lab.2plus with gas laser, Type 8060/261) can be extracted separately (see ⇒ *Connection of an exhaust on the laser exhaust duct*)

Regular exchange of the air volume in the work rooms is necessary.

Note

The wet section of the Paper Processor is sealed. The exhaust air generated here is negligible. Hence, the connection of an air exhaust is not necessary in this area.

4.8.2 Room ventilation

Ventilation should be sufficient so that the maximum working site concentration is not exceeded.

Observe national regulations!

4.8.3 Connection of an Exhaust on the Laser Exhaust Duct (only for machines with gaslaser)

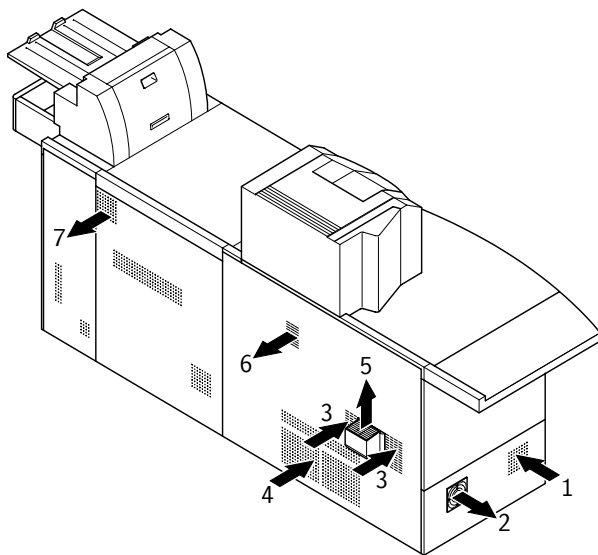
Applies only to d-lab.2 type 8060/260 and d-lab.2plus type 8060/261

not applicable for machines with solid state laser

(d-lab.2 type 8060/803, 8060/804, 8060/270, 8060/272 und 8060/157+8060/255,

d-lab.2plus type 8060/813, 8060/814, 8060/271, 8060/273 und 8060/158+8060/255)

netlab.2plus type 8060/505)



- 1 Air supply for Printer power supply
- 2 Exhaust laser and Printer power supply
- 3 Air supply laser
- 4 Air supply Printer
- 5 Exhaust laser
- 6 Exhaust Printer
- 7 Exhaust Paper Processor

Pos. 3 and 5 are omitted in machines with solid state lasers

G_GG402

The fan of the laser power supply generates an air stream of 220 m³/h.

An exhaust hose can be connected on rectangular connection piece (5) located on the Printer rear panel.

An adapter for the connection to an air exhaust hose with a diameter of 125 mm is available:

Type 8060/350, order number (ABC-Code) 5GVP2.

CAUTION!

Never use an exhaust hose smaller than 125 mm in diameter. This would cause heat accumulation resulting in a reduced life span of the laser!

Note

The wet section of the Paper Processor is sealed. The exhaust air generated here is negligible. Hence, the connection of an air exhaust is not necessary in this area.

4.9 Operating Conditions

The following conditions must be met for operation of the Minilab:

Room temperature:	+15 °C to +30 °C
Relative humidity:	15% to 85%
Noise level:	< 70 dB(A)

Maximum ambient light:

Printer + Paper Processor:	10,000 Lux
Paper magazines:	20,000 Lux



CAUTION!

This machine is a Class A equipment according to EN 55022. This equipment may cause radio interference in residential areas. In this case the user may be required to initiate respective measures and pay for those.

4.10 Conditions for Storage and Transport

The following conditions must be met for storage and transport of the Minilab:

Temperature range:	-50 °C to +60 °C
Relative humidity:	15% to 90%

4.11 Network Connection

The Minilab can be connected to one Workstation in the lab. For communication it uses the Software **d-workflow** / **d-bridge**, which must be installed in the Workstation. A Workstation with this installation provides printable, externally created orders, which were sent to the d-workflow / d-bridge, for collection by the Minilab.

And vice versa the Minilab can send image files to a workstation and save the files there.

Network setup is the responsibility of the customer. AgfaPhoto supplies the required software (see ⇒ *Ordering aid for network-connected image processing systems*).

5 Power Supply

5.1 On-Site Connections

**CAUTION!**

The permanent on-site connection must be made by an authorized electrician who is also responsible for this job.

The connections for the machine must be installed by a local electrician according to the data listed in the following sections. Thereby the following facts should be considered:

- The power connecting cable must be run up to the Minilab.
- Plan for a circuit breaker to cut the machine off the mains.
- If you want to use the integrated strain-relief consider the outer diameter of the power cable. This must be within a range of at least 13 mm to maximum 18 mm.
- For the connection of the PE conductor, a cable lug with a hole diameter of about 6 mm must be used or, if solid conductors (wires) are used, an appropriate lug must be bent.

5.2 Connection Values, Connection Voltages, Connection Types

We recommend a 3-phase operation, single-phase operation is possible.



CAUTION!

Make sure that the line section of the on-site installation and the connecting cable is sufficient!

In case of an insufficient cable cross-section the cable get hot: risk of fire.

Connection type	Pictograph	Nominal supply voltage	Nominal frequency	Nominal current	Site connection, fuse protection
3W + N + PE		220/380 V 230/400 V 240/415 V	50/60 Hz	16 A	3 x 16 A
3W + PE		200 V 210 V 220 V 230 V 240 V	50/60 Hz	25 A	3 x 25 A
2W + PE 1W + N + PE		200 V 210 V 220 V 230 V 240 V	50/60 Hz	32 A	1 x 32 A



CAUTION!

Only the values listed in the table above may be applied between phase and neutral, or if there is no neutral, between phase and phase.



CAUTION!

For operation with 50 Hz mains: single-phase connection is only permitted for industrial networks. If the machine is connected to a public low-voltage network the connection must always be a 3-phase connection (as required by IEC 61000-3-3).

5.3 Fuse Protection

Fuse protection for the on-site connection: see ⇒ table on previous page.

Note

Due to induction the intensity of the current flowing at the moment of switch-on is a multiple of the normal current. The magnetizing current (rush effect) of the transformer rises considerably and may trigger the lab fuse. We recommend to use a safety circuit breaker with slow trigger characteristics.

5.4 Grounding / Earth Connection

The Minilab must be earthed directly and correctly.

HOHER ABLEITSTROM

Vor Inbetriebnahme
Erdverbindung herstellen!

HIGH LEAKAGE CURRENT

Earth connection before
connecting supply !

6 Checklist

The completed checklist must be returned to the AgfaPhoto Service in charge no later than two weeks prior to the scheduled installation date. Only if all conditions listed below have been satisfied and this has been confirmed by the customer writing, the installation can be made at the scheduled date.

If individual points or all of the conditions below have been neglected this causes a delay and/or additional expenditure for the Service, which can be charged to the customer.

6.1 Machine

The following machine should be delivered and installed:

- ☐ d-lab.2
- ☐ d-lab.2plus
- ☐ netlab.2plus

6.2 Delivery and Transport

Yes No

Delivery

- ☐ ☐ The customer ensures free access for the delivery day
- ☐ ☐ Can the delivery truck drive up to the entrance?

Transport

- ☐ ☐ Access to the operation site on ground floor?
If **NOT**, describe the delivery and transport situation:
 - ☐ Machine must transported upstairs / downstairs:
Number of floors / stairs _____ / _____
 - ☐ Freight elevator present?
 - ☐ Loading zone present?
 - ☐ Fork lift / crane required?
 - ☐ Doors must be removed?
 - ☐ Windows must be removed?
 - ☐ Transport across uneven floor, thresholds, etc.?
- ☐ ☐ Inspection by forwarder required prior to the installation?
Remarks: _____

- ☐ ☐ Access to the operation site: Height and width of hallways and doors meet the minimum requirements? (door width min. 0.95 m, height 1.85 m)

6.3 Supply Facilities

Yes No

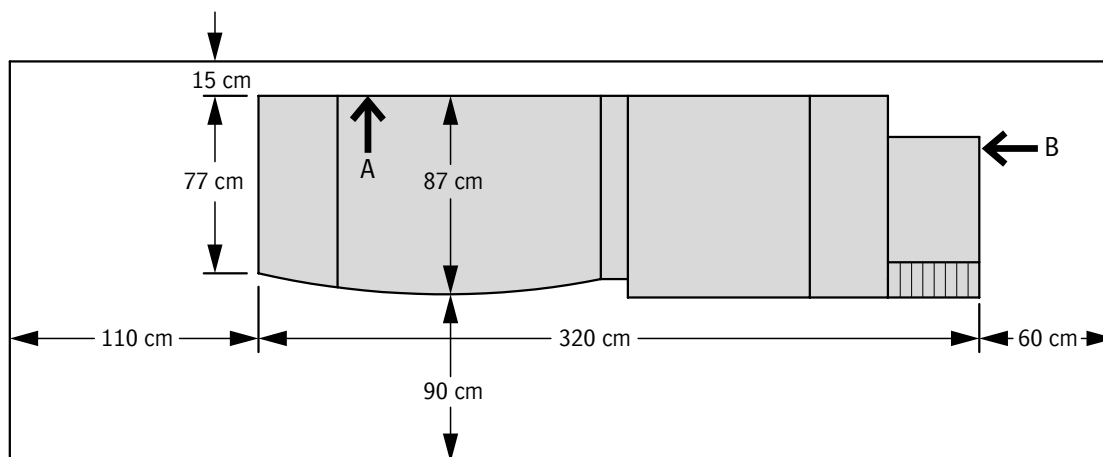
Illumination

- ☐ ☐ Maximum light intensity of 10,000 Lux is not exceeded?
- ☐ ☐ Production area is sufficiently illuminated for evaluation of the printed production? (day light fluorescent light)
- ☐ ☐ Machine is not exposed to direct sunlight at the operation site?

Remarks: _____

Space requirements for operation and service

- ☐ ☐ Enough space available around the machine for operation and service (at least 4.90 m x 1.82 m – see *drawing* and ⇒ *Required Space for Operation, Maintenance, and Service*)?



G_GG129

- A Hot air extraction (for laser exhaust = 220 m³/h
(only machines with Gaslaser: d-lab.2 Type 8060/260, d-lab.2plus Type 8060/261)
- B Power connection

- ☐ ☐ Ceiling height meets the requirements (at least 2.15 m)?
- ☐ ☐ Darkroom or dark tent present?

Remarks: _____

Yes No

Floor conditions

- ☐ ☐ Floor load meets the requirements (at least 500 kg/m²)?
- ☐ ☐ Floor covering meets the requirements?
(resistant to water and chemicals; no carpet)
- ☐ ☐ Even floors?
(no inclination, raised or uneven spots, et.)

Remarks: _____

Darkroom / dark tent

- ☐ ☐ Is a darkroom or dark tent available to load the paper rolls?

Disposal of chemicals

- ☐ ☐ The customer is familiar with the local regulations regarding the disposal and made the required preparations?

Air conditioning and room aeration

- ☐ ☐ Operating area has sufficient aeration / air conditioning to ensure the required room temperature and humidity?
- Applies only to machines with gas laser (d-lab.2 type 8060/260 and d-lab.2plus type 8060/261)
- Warm air extraction for laser exhaust (220 m³ / h; connection position see ⇨ A in the illustration, previous page) or air conditioning.

Air exhaust adapter Ø 125 mm, Type 8060/350

- ☐ ☐ The customer is familiar with the local regulations regarding the regular exchange of air in working rooms and made the required preparations?

Remarks: _____

Yes No**Water supply**

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Customer wants a direct water connection to the machine?
Order the water connection kit (optional accessory) before the installation! |
| <input type="checkbox"/> | <input type="checkbox"/> | Water connection for chemical mixing and for cleaning or maintenance work available?
Distance to the machine: _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Cleaning sink available near the machine?
Remarks: _____

_____ |

Power connection

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | The customer is familiar with requirements and ensures that all preparations are made prior to the installation (supply cable must be installed all the way to the machine; connection position: see ⇒ B, drawing in section <i>Supply Facilities</i>)?
Configuration: _____
Remarks: _____

_____ |
|--------------------------|--------------------------|--|

Telephone connection

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | The customer is familiar with the requirements and makes sure that the respective work is completed prior to the installation?
Remarks: _____

_____ |
|--------------------------|--------------------------|--|

Network connection

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | The customer is familiar with the requirements and makes sure that the respective work is completed prior to the installation?
Remarks: _____

_____ |
|--------------------------|--------------------------|--|

6.4 Training**Yes No****Training**

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Necessary training has been discussed with the customer? |
|--------------------------|--------------------------|--|

6.5 Consumables

Yes No

Consumables

☐ ☐ The customer uses AgfaPhoto paper and chemicals?

In case of **Yes**:

- ☐ Tank kits ordered?
- ☐ Easy paper boxes ordered?
- ☐ Chemical control strips ordered?
- ☐ Paper ordered?

In case of **No**:

- ☐ Requirements discussed with the customer? The customer is informed about the consumables which must be present at the time of installation?

Remarks: _____

6.6 Accessories / Hardware / Software

Yes No

Accessories / Hardware / Software

☐ ☐ Requirements have been discussed with the customer? The customer is informed about the prerequisites for the installation?

Remarks: _____

General remarks: _____

Scheduled delivery date: _____

Scheduled installation date: _____

 AgfaPhoto representative

 Customer

6.7 Preinstallation – Customer

6.7.1 Supply systems – contractors

- ☐ Electrical connections
Contractor appointed to do the installation:

Date: _____

- ☐ Water / waste water
Contractor appointed to do the installation:

Date: _____

- ☐ Air conditioning / room ventilation
Contractor appointed to do the installation:

Date: _____

- ☐ Telephone connection
Contractor appointed to do the installation:

Date: _____

- ☐ Network connection
Contractor appointed to do the installation:

Date: _____

6.7.2 Ordered consumables

	Delivery date
<input type="checkbox"/> Tank kits ordered?	_____
<input type="checkbox"/> Easy paper boxes ordered?	_____
<input type="checkbox"/> Chemical control strips ordered?	_____
<input type="checkbox"/> Paper ordered?	_____

6.7.3 Additional parts / hardware / software, ordered

	Delivery date
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

6.7.4 Scheduled installation date

☐ _____

7 Ordering Aid

7.1 Ordering Aid d-lab.2/d-lab.2plus – Features and Accessories for 'basic' and 'select' Models

	d-lab.2/d-lab.2plus <i>basic</i>	d-lab.2/d-lab.2plus <i>select</i>
scanner/printer/paper processor	●	●
2 paper magazines	○	●
negative carrier 135	●	●
negative carrier APS	○	●
auxiliary shelf	○	●
reorder keyboard	○	●
passport/combi print option	○	●
slide film option (135/120 unmounted)	○	●
slide carrier (135 mounted)	○	○
scratch correction for CN film	●	●
scratch correction for slide film	○	●
a-REDC red eyes correction	○	●
6"x12" sorter *	●	●
10"x12" sorter *	●	●

Legend:

● = standard feature/accessory

○ = optional feature/accessory

* = depending on the ordered type, 6" or 10" sorter

7.2 Ordering Aid d-lab.2

d-lab.2 select (6" Sorter)¹	Type no. 8060/804	Order no. 5LTJF	
consists of			number
d-lab.2 Printer 2004*, Paper Processor, Sorter 6" 10 Trays			1
Auxiliary Shelf			1
Paper Magazine 8" incl. 4,5"			1
Paper Magazine 12" incl. 4,5"			1
Reorder Keyboard			1
Neg. Carrier IX240 (APS)			1
passport/combi print			1
slide film unmounted****			1
scratch correction slide			1
red eyes correction (a-RECD)			1

d-lab.2 select (10" Sorter)¹	Type no. 8060/803	Order no. 5LKW4	
consists of			number
d-lab.2 Printer 2004*, Paper Processor, Sorter 10" 10 Trays			1
Auxiliary Shelf			1
Paper Magazine 8" incl. 4,5"			1
Paper Magazine 12" incl. 4,5"			1
Reorder Keyboard			1
Neg. Carrier IX240 (APS)			1
passport/combi print			1
slide film unmounted****			1
scratch correction slide			1
red eyes correction (a-RECD)			1

¹ d-lab.2 select does not include monitor! Please choose one of the two following items:

	type no.	Order no.	number
Touch Screen Monitor LCD (Flat Screen)	8060/341	5FLPM	1
Touch Screen Monitor CRT1	8060/340	5FLOK	1

Options for d-lab.2 select	type no.	Order no.	number	
USB Modem for Remote Service Access (CE/ENEC)	8060/311	5H1U7	1	
Paper Magazine 8" incl. 4,5"	8060/361	5H9LN		
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5		
Pricing Unit (CE/TÜV)***	8506/181	B7256		
Pricing Unit (UL)***	8506/182	B9M81		
Neg. Carrier 135H	8506/136	B72N5		
Neg. Carrier 110	8506/139	B72QC		
Mirror Box 120	8060/380	5HTEG		
Neg. Carrier 120 6x4,5	8506/165	B72TJ		
Neg. Carrier 120 6x6	8506/166	B72UL		
Neg. Carrier 120 6x7	8506/167	B72VN		
Neg. Carrier 120 6x8	8506/168	B72WP		
Neg. Carrier 120 6x9	8506/169	B72XR		
Slide Carrier (incl. scanner filters)	8060/330	5FLNH		
Software Licences for d-lab				
Pricing d-lab (w/o label printer)	8060/400	5HUBE		
Index Print Import d-lab	8060/401	5HUCG		
Statistics Save d-lab	8060/403	5H1A2		
External water connection d-lab.2	8060/351	5H12N		

¹ d-lab.2 select does not include monitor

* includes 135 negative carrier and universal lens

*** additional billable software licence "Pricing d-lab" 8060/400 (5HUBE) required

**** option requires either slide carrier (incl. scanner filters) 8060/330 (5FLNH) or slide scanner filters (available as single service spare parts)

d-lab.2 basic (6" Sorter)	type no.	Order no.	number
<i>The following 4 items are required to run a d-lab.2:</i>			
d-lab.2 Printer 2004*, Paper Processor, Sorter 6" 10 Trays	8060/270	5LKSV	1
Paper Magazine 8" incl. 4,5"	8060/361	5H9LN	1
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	1
Touch Screen Monitor CRT	8060/340	5FLOK	1

d-lab.2 basic (10" Sorter)	type no.	Order no.	number
<i>The following 4 items are required to run a d-lab.2:</i>			
d-lab.2 Printer 2004*, Paper Processor, Sorter 10" 10 Trays	8060/272	5LKUZ	1
Paper Magazine 8" incl. 4,5"	8060/361	5H9LN	1
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	1
Touch Screen Monitor CRT	8060/340	5FLOK	1

Options for d-lab.2 basic	type no.	Order no.	number
USB Modem for Remote Service Access (CE/ENEC)	8060/311	5H1U7	
Touch Screen Monitor LCD (Flat Screen)**	8060/341	5FLPM	
Auxiliary Shelf	8060/320	5FDHC	
Reorder Keyboard	8070/700	5KXZN	
Paper Magazine 8" incl. 4,5"	8060/361	5H9LN	
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	
Pricing Unit (CE/TÜV)**	8506/181	B7256	
Pricing Unit (UL)**	8506/182	B9M81	
Neg. Carrier 135H	8506/136	B72N5	
Neg. Carrier 110	8506/139	B72QC	
Neg. Carrier IX240 (APS)	8506/140	B72RE	
Mirror Box 120	8060/380	5HTEG	
Neg. Carrier 120 6x4,5	8506/165	B72TJ	
Neg. Carrier 120 6x6	8506/166	B72UL	
Neg. Carrier 120 6x7	8506/167	B72VN	
Neg. Carrier 120 6x8	8506/168	B72WP	
Neg. Carrier 120 6x9	8506/169	B72XR	
Slide Carrier (incl. scanner filters)	8060/330	5FLNH	

Options for d-lab.2 basic (cont.)	type no.	Order no.	number
<i>Software Licences for d-lab</i>			
Pricing d-lab (w/o label printer)	8060/400	5HUBE	
Index Print Import d-lab	8060/401	5HUCG	
Passport/Combi Print d-lab	8060/402	5HZ9X	
Statistics Save d-lab	8060/403	5H1A2	
passport/combi print	8060/402	5HZ9X	
slide film unmounted****	8070/604	5LRG2	
scratch correction slide	8070/605	5LRH4	
red eyes correction (a-RECD)	8070/606	5LRJ6	
External water connection d-lab.2	8060/351	5H12N	

* includes 135 negative carrier and universal lens

** LCD Monitor will be delivered instead of the CRT Monitor.

*** additional billable software licence "Pricing d-lab" 8060/400 (5HUBE) required

**** option requires either slide carrier (incl. scanner filters) 8060/330 (5FLNH) or slide scanner filters (available as single service spare parts)

7.3 Ordering Aid d-lab.2plus

d-lab.2plus select (6" Sorter)¹	Type no. 8060/814	Order no. 5LTKH	
consists of			number
d-lab.2plus Printer 2004*, Paper Processor, Sorter 6" 13 Trays			1
Auxiliary Shelf			1
Paper Magazine 12" incl. 4,5"			2
Reorder Keyboard			1
Neg. Carrier IX240 (APS)			1
passport/combi print			1
slide film unmounted****			1
scratch correction slide			1
red eyes correction (a-RECD)			1

d-lab.2plus select (10" Sorter)¹	Type no. 8060/813	Order no. 5LKX6	
consists of			number
d-lab.2plus Printer 2004*, Paper Processor, Sorter 10" 10 Trays			1
Auxiliary Shelf			1
Paper Magazine 12" incl. 4,5"			2
Reorder Keyboard			1
Neg. Carrier IX240 (APS)			1
passport/combi print			1
slide film unmounted****			1
scratch correction slide			1
red eyes correction (a-RECD)			1

¹ d-lab.2plus select does not include monitor! Please choose one of the two following items:

	type no.	Order no.	number
Touch Screen Monitor LCD (Flat Screen)	8060/341	5FLPM	1
Touch Screen Monitor CRT1	8060/340	5FLOK	1

Options for d-lab.2plus select	type no.	Order no.	number
USB Modem for Remote Service Access (CE/ENEC)	8060/311	5H1U7	
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	
Pricing Unit (CE/TÜV)**	8506/181	B7256	
Pricing Unit (UL)**	8506/182	B9M81	
Neg. Carrier 135H	8506/136	B72N5	
Neg. Carrier 110	8506/139	B72QC	
Mirror Box 120	8060/380	5HTEG	
Neg. Carrier 120 6x4,5	8506/165	B72TJ	
Neg. Carrier 120 6x6	8506/166	B72UL	
Neg. Carrier 120 6x7	8506/167	B72VN	
Neg. Carrier 120 6x8	8506/168	B72WP	
Neg. Carrier 120 6x9	8506/169	B72XR	
Slide Carrier (incl. scanner filters)	8060/330	5FLNH	
Software Licences for d-lab			
Pricing d-lab (w/o label printer)	8060/400	5HUBE	
Index Print Import d-lab	8060/401	5HUCG	
Statistics Save d-lab	8060/403	5H1A2	
External water connection d-lab.2plus	8060/351	5H12N	

¹ d-lab.2plus select does not include monitor

* includes 135 negative carrier and universal lens

*** additional billable software licence "Pricing d-lab" 8060/400 (5HUBE) required

**** option requires either slide carrier (incl. scanner filters) 8060/330 (5FLNH) or slide scanner filters (available as single service spare parts)

d-lab.2plus basic (6" Sorter)	type no.	Order no.	number
<i>The following 3 items are required to run a d-lab.2plus:</i>			
d-lab.2plus Printer 2004*, Paper Processor, Sorter 6" 13 Trays	8060/271	5LKT X	1
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	2
Touch Screen Monitor CRT	8060/340	5FLOK	1

d-lab.2plus basic (10" Sorter)	type no.	Order no.	number
<i>The following 3 items are required to run a d-lab.2plus:</i>			
d-lab.2plus Printer 2004*, Paper Processor, Sorter 10" 10 Trays	8060/273	5LKV2	1
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	2
Touch Screen Monitor CRT	8060/340	5FLOK	1

Options for d-lab.2plus basic	type no.	Order no.	number
USB Modem for Remote Service Access (CE/ENEC)	8060/311	5H1U7	
Touch Screen Monitor LCD (Flat Screen)**	8060/341	5FLPM	
Auxiliary Shelf	8060/320	5FDHC	
Reorder Keyboard	8070/700	5KXZN	
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	
Pricing Unit (CE/TÜV)***	8506/181	B7256	
Pricing Unit (UL)***	8506/182	B9M81	
Neg. Carrier 135H	8506/136	B72N5	
Neg. Carrier 110	8506/139	B72QC	
Neg. Carrier IX240 (APS)	8506/140	B72RE	
Mirror Box 120	8060/380	5HTEG	
Neg. Carrier 120 6x4,5	8506/165	B72TJ	
Neg. Carrier 120 6x6	8506/166	B72UL	
Neg. Carrier 120 6x7	8506/167	B72VN	
Neg. Carrier 120 6x8	8506/168	B72WP	
Neg. Carrier 120 6x9	8506/169	B72XR	
Slide Carrier (incl. scanner filters)	8060/330	5FLNH	

Options for d-lab.2plus basic (cont.)	type no.	Order no.	number
<i>Software Licences for d-lab</i>			
Pricing d-lab (w/o label printer)	8060/400	5HUBE	
Index Print Import d-lab	8060/401	5HUCG	
Passport/Combi Print d-lab	8060/402	5HZ9X	
Statistics Save d-lab	8060/403	5H1A2	
passport/combi print	8060/402	5HZ9X	
slide film unmounted****	8070/604	5LRG2	
scratch correction slide	8070/605	5LRH4	
red eyes correction (a-RECD)	8070/606	5LRJ6	
External water connection d-lab.2plus	8060/351	5H12N	

* includes 135 negative carrier and universal lens

** LCD Monitor will be delivered instead of the CRT Monitor.

*** additional billable software licence "Pricing d-lab" 8060/400 (5HUBE) required

**** option requires either slide carrier (incl. scanner filters) 8060/330 (5FLNH) or slide scanner filters (available as single service spare parts)

7.4 Order Aid d-lab.2 & d-lab.2plus special version for 70mm film

d-lab.2 special version for 70mm film	type no.	Order no.	number
d-lab.2 Printer 70mm 2004**	8060/157	5LD82	1
d-lab.2(plus) Paper Processor (w/o sorter)	8060/255	5LKON	1
Sorter 6" 10 Trays	8060/290	5LKPP	1
Paper Magazine 8" incl. 4,5"	8060/361	5H9LN	1
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	1
Negative Carrier 70mm 6x6	8060/166	5K3G5	1
Touch Screen Monitor CRT	8060/340	5FLOK	1

Options	type no.	Order no.	number
Sorter 10" 10 Trays*	8060/291	5LKQR	
For further options please see "Options" on sheet "d-lab.2 basic"			

d-lab.2plus special version for 70mm film	type no.	Order no.	number
d-lab.2plus Printer 70mm 2004**	8060/158	5LENY	1
d-lab.2(plus) Paper Processor (w/o sorter!)	8060/255	5LKON	1
Sorter 6" 13 Trays	8060/293	5LKRT	1
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	2
Negative Carrier 70mm 6x6	8060/166	5K3G5	1
Touch Screen Monitor CRT	8060/340	5FLOK	1

Options	type no.	Order no.	number
Sorter 10" 10 Trays*	8060/291	5LKQR	
For further options please see "Options" on sheet "d-lab.2plus basic"			

* 10" sorter will be delivered instead of 6" sorter

** includes 135 negative carrier and universal lens

7.5 Ordering Aid netlab.2plus basic

<i>The following 3 items are required to a run netlab.2plus:</i>	type no.	Order no.	number
netlab.2plus Printer (w/o Paper Magazines), Paper Processor, 10" Sorter (10 Trays)	8060/505	5LL5Q	1
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	2
Touch Screen Monitor CRT	8060/340	5FLOK	1

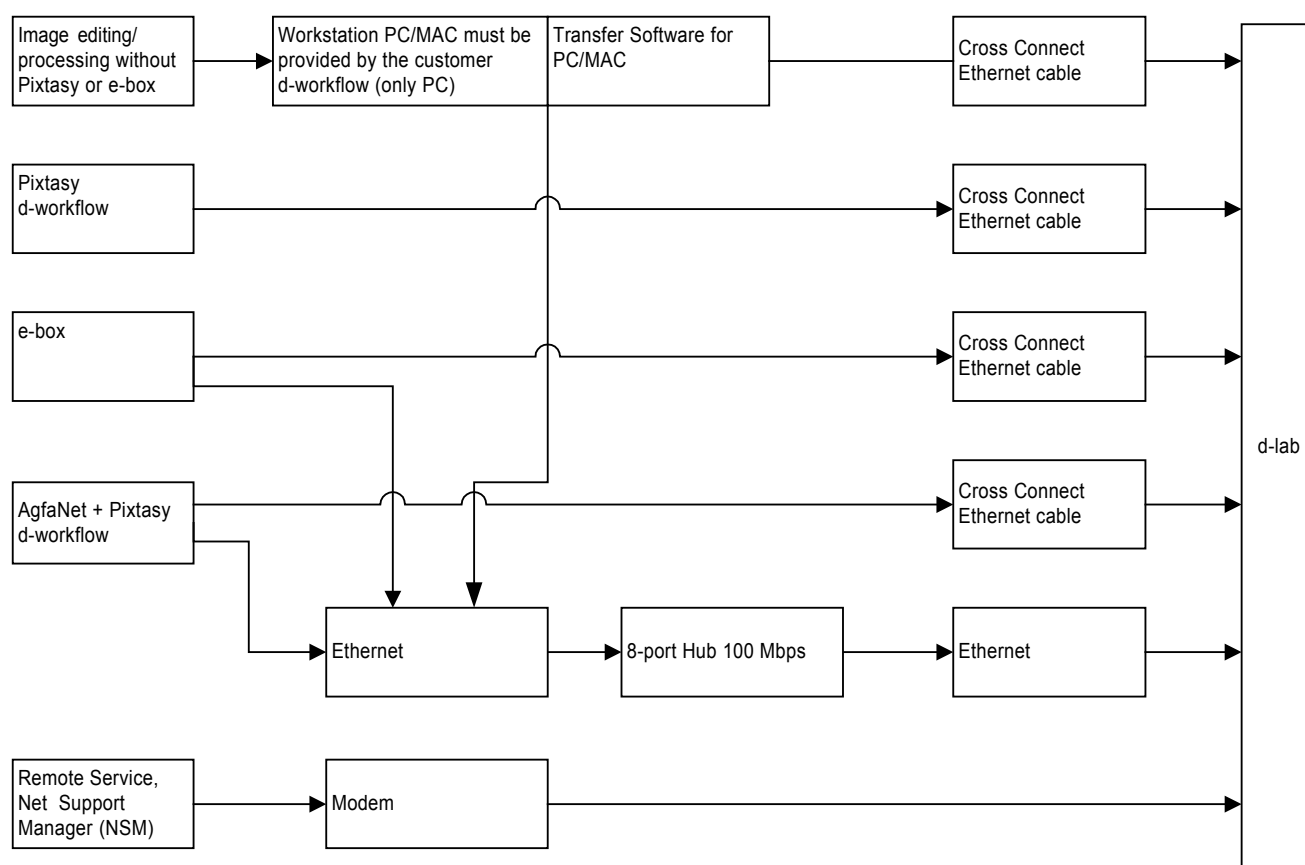
Options	type no.	Order no.	number
USB Modem for Remote Service Access (CE/ENEC)	8060/311	5H1U7	
Touch Screen Monitor LCD (Flat Screen)**	8060/341	5FLPM	
Auxiliary Shelf	8060/320	5FDHC	
Paper Magazine 12" incl. 4,5"	8060/362	5J4J5	
Pricing Unit (CE/TÜV)***	8506/181	B7256	
Pricing Unit (UL)***	8506/182	B9M81	
Software Licences for d-lab			
Pricing d-lab (w/o label printer)	8060/400	5HUBE	
Index Print Import d-lab	8060/401	5HUCG	
Passport/Combi Print d-lab	8060/402	5HZ9X	
Statistics Save d-lab	8060/403	5H1A2	
External water connection d-lab.2/.2plus	8060/351	5H12N	

** LCD Monitor will be delivered instead of the CRT Monitor.

*** additional billable software licence "Pricing d-lab" 8060/400 (5HUBE) required

7.6 Ordering Aid for Network-Connected Image Processing Systems on the Minilab with Remote Service

		Type	Order no.
Transfer Software for PC/Mac		8060/370	5GVQ4
Pixtasy 4.0		9975/170	5F5S3
d-workflow Software (only PC)			—
AgfaPhotonet Print Service			—
e-box		9977/100	
USB modem		8060/311	5H1U7
Analog modem 56k (230 V, 50 Hz)			DE+2984338
8-port Hub, 100 Mbps			CM+7.0486.1344.0
Ethernet cable available lengths	5 m		CM+9.9999.1114.0
	10 m		CM+9.9999.1115.0
	15 m		CM+9.9999.1116.0
	20 m		CM+9.9999.1117.0
Ethernet cable (cross connect) available lengths	2 m		CM+9.9999.1121.0
	5 m		CM+9.8508.1294.0
	10 m		CM+9.9999.1119.0
	15 m		CM+9.9999.1120.0



7.7 Operation Manuals

The Operation Manuals – Operation sections, available by the order numbers mentioned below, apply to all minilabs d-lab.2, d-lab.2plus, and netlab.2plus.

Minilab	Order no.
German	DD+18060A161D0
English	DD+18060A162D0
French	DD+18060A163D0
Italian	DD+18060A164D0
Spanish	DD+18060A165D0

7.8 Consumables

Chemicals	Order no.
The chemical kits mentioned below are used in all minilabs d-lab.2, d-lab.2plus, and netlab.2plus.	
d-lab.2 Easy Paper Box for 110 m ² (2 boxes)	5KPGL
MSC 200/300/d-lab.2/d-lab.3 tank kit	5FFYK
MSC/d-lab tank CD for 2 x 18.5 liters: contains concentrate for two CD tank fillings	5HX5G
MSC/d-lab tank BX for 2 x 18 liters: contains concentrate for two BX tank fillings	5HX7L
MSC/d-lab tank SB for 12 x 11-12.5 liters: contains concentrate for three SB tank fillings	5HX8N

Agfacolor Splendix Paper 310 glossy										
Width [cm]	x	Length [cm]	Width [inch]	x	Length [inch]	Order number	Barcode (EAN)		Rolls per packing unit *	Packing units per pallet
8.9	x	183	3.5	x	600	5K5XD	4006353	427569	4	24
10.2	x	183	4	x	600	5K5YF	4006353	427576	4	24
12.7	x	183	5	x	600	5K5ZH	4006353	427583	2	36
15.2	x	183	6	x	600	5K51K	4006353	427590	2	30
17.8	x	91.5	7	x	300	5K52M	4006353	427606	4	24
20.3	x	91.5	8	x	300	5K53O	4006353	427613	4	18
25.4	x	91.5	10	x	300	5K54Q	4006353	427620	4	18
27.9	x	91.5	11	x	300	5K55S	4006353	427637	2	24
30.5	x	91.5	12	x	300	5K57W	4006353	427651	2	24

* minimum order amount: one packing unit

Agfacolor Splendix Paper 319 lustre										
Width [cm]	x	Length [cm]	Width [inch]	x	Length [inch]	Order number	Barcode (EAN)		Rolls per packing unit *	Packing units per pallet
8.9	x	183	3,5	x	600	5K6Q2	4006353	427835	4	24
10.2	x	183	4	x	600	5K6R4	4006353	427842	4	24
12.7	x	183	5	x	600	5K6S6	4006353	427859	2	36
15.2	x	183	6	x	600	5K6T8	4006353	427866	2	30
17.8	x	91.5	7	x	300	5K6UB	4006353	427873	4	24
20.3	x	91.5	8	x	300	5K6VD	4006353	427880	4	18
25.4	x	91.5	10	x	300	5K6WF	4006353	427897	4	18
27.9	x	91.5	11	x	300	5K6XH	4006353	427903	2	24
30.5	x	91.5	12	x	300	5K6YK	4006353	427910	2	24

* minimum order amount: one packing unit

Agfacolor Sensatis Paper 510 glossy										
Width [cm]	x	Length [cm]	Width [inch]	x	Length [inch]	Order number	Barcode (EAN)		Rolls per packing unit *	Packing units per pallet
8.9	x	158	3,5	x	518	5K4NN	4006353	427125	4	24
10.2	x	158	4	x	518	5K40P	4006353	427132	4	24
11.4	x	158	4,5	x	518	5K4PR	4006353	427149	2	30
12.7	x	158	5	x	518	5K4QT	4006353	427156	2	36
15.2	x	158	6	x	518	5K4RV	4006353	427163	2	30
17.8	x	79	7	x	259	5K4SX	4006353	427170		
20.3	x	79	8	x	259	5K4TZ	4006353	427187	4	18
25.4	x	79	10	x	259	5K4U2	4006353	427194		
30.5	x	79	12	x	259	5K4V4	4006353	427200	2	24

* minimum order amount: one packing unit

Agfacolor Sensatis Paper 519 lustre										
Width [cm]	x	Length [cm]	Width [inch]	x	Length [inch]	Order number	Barcode (EAN)		Rolls per packing unit *	Packing units per pallet
8.9	x	158	3,5	x	518	5K5EA	4006353	427385	4	24
10.2	x	158	4	x	518	5K5FC	4006353	427392	4	24
12.7	x	158	5	x	518	5K5GE	4006353	427408	2	36
15.2	x	158	6	x	518	5K5HG	4006353	427415	2	30
17.8	x	79	7	x	259	5K5JJ	4006353	427422		
20.3	x	79	8	x	259	5K5KL	4006353	427439	4	18
25.4	x	79	10	x	259	5K5LN	4006353	427446		
30.5	x	79	12	x	259	5K5MP	4006353	427453	2	24

* minimum order amount: one packing unit

Air filter	Order no.
Lamphouse (only d-lab.2/2plus)	CM+9.8061.LHL5.0
CCD(only d-lab.2/2plus)	CM+9.8061.FEL4.0
Cutter area	CM+9.7075.2731.0
Door to print engine (PE, d-lab.2) resp. print machine (PM, d-lab.2plus, netlab.2plus)	CM+9.8060.MUL8.1
Paper outlet (PO)	CL+P4-4071(3/1)
Dryer	CL+P4-E9249
AC supply	CL+P4-E9249

Chemical filters and control strips	Order no.
Chemical filters CD, BX, SB1, SB2, SB3, SB4	CL+P4-E0364
Chemical control strip	5HWGX

Other consumables	Order no.
Back printer ink ribbon	CM+9.8060.LDZF.1
Scanner lamp (only d-lab.2/2plus)	CM+7.0450.6545.0

8 Technical Data

8.1 Machine versions

Machines with gas laser:

d-lab.2	Type 8060/260
d-lab.2plus	Type 8060/261

Machines with solid state laser:

d-lab.2 select	Type 8060/803 and Type 8060/804
d-lab.2 basic	Type 8060/270 and Type 8060/272
d-lab.2 (70mm)	Type 8060/157 + 8060/255
d-lab.2plus select	Type 8060/813 and Type 8060/814
d-lab.2plus basic	Type 8060/271 and Type 8060/273
d-lab.2plus (70mm)	Type 8060/158 + 8060/255
netlab.2plus basic	Type 8060/505

8.2 Complete System

Dimensions	Applies to d-lab.2	
	Length:	2,840 mm (including sorter) + 350 mm for optional work table
	Width:	Applies to d-lab.2 with gas laser (type 8060/260) 1,010 with film collecting box and laser exhaust
		Applies to d-lab.2 with solid state laser (Type 8060/803, 8060/804, 8060/270, 8060/272 and 8060/157+8060/255) 920 mm with film collecting box
	Height:	1,530 mm
	Weight empty:	approx. 910 kg
	Weight filled:	approx. 1,055 kg

	<p>Applies to d-lab.2plus</p> <p>Length: 2,840 mm (including sorter) + 350 mm for optional work table</p> <p>Width: Applies to d-lab.2plus with gas laser (Printer type 8060/261) 1,010 mm with film collecting box and air exhaust laser</p> <p>Applies to d-lab.2plus with solid state laser (type 8060/813, 8060/814, 8060/271, 8060/273 and 8060/158+8060/255) 920 mm with film collecting box</p> <p>Height: 1,530 mm</p> <p>Weight empty: approx. 922 kg</p> <p>Weight filled: approx. 1,067 kg</p>
	<p>Applies to netlab.2plus</p> <p>Length: 2,840 mm (including sorter) + 350 mm for optional work table</p> <p>Width: 770 mm without table top 870 mm with mounted table top) at the sorter 1060mm)</p> <p>Height: 1,530 mm</p> <p>Weight empty: approx. 855 kg</p> <p>Weight filled: approx. 1,000 kg</p>
General	<p>Applies to d-lab.2/2plus</p> <p>Digital minilab to print negative films, slides, reversal films and images from digital sources (storage medium or network) and to save digital data on digital storage media or in a connected network</p> <p>Prescan with AgfaPhoto TFS Total Film Scanning</p> <p>Mainscan with high resolution CCD chip (2,000 x 3,000 pixels)</p> <p>Printer with digital print system (laser)</p> <p>Scanner and Printer integrated in one housing</p> <p>Paper Processor with AgfaPhoto-specific laser paper chemicals</p> <p>Applies to netlab.2plus</p> <p>Digital minilab to print images from digital sources (storage medium or network) and to save digital data on digital storage media or in a connected network</p> <p>Printer with digital print system (laser)</p> <p>Paper Processor with AgfaPhoto-specific laser paper chemicals</p>

Print sizes	Applies to d-lab.2			
	Minimum:	82 mm x 117 mm (3.25" x 4.6") on 82 mm / 3.25" paper width		
	Maximum:	305 mm x 457 mm (12" x 18") on 305 mm / 12" paper width		
	Applies to d-lab.2plus/netlab.2plus			
	Minimum:	82 mm x 89 mm (3.25" x 3.5") on 82 mm / 3.25" paper width		
	Maximum:	305 mm x 457 mm (12" x 18") on 305 mm / 12" paper width		
Electrical requirements	Connection specifications:			
	3W+N+PE	220/380V, 230/400V, 240/415V	50/60 Hz	3 x 16 A
	3W+PE	200V, 210V, 220V, 230V, 240V	50/60 Hz	3 x 25 A
	2W+PE	200V, 210V, 220V, 230V, 240V	50/60 Hz	1 x 32 A
	1W+N+PE	200V, 210V, 220V, 230V, 240V	50/60 Hz	1 x 32 A
Film and negative / slide formats	Applies only to d-lab.2/2plus			
	Film size		Negative / slide formats	
	110 negatives		Format 110 (color)	
	135 negatives		Full frame, half frame, panorama (color and B/W)	
	135 slides		mounted 5x5 cm and reversal film strips, color and black-and-white	
	IX240 negatives		Classic, HighVision, Panorama (color and B/W)	
	120/220 negatives		6x4.5 cm, 6x6 cm, 6x7 cm, 6x8 cm, 6x9 cm	
	120/220 slides		reversal film strips, color and black-and-white	
Noise level	65 dB(A) standby 68 dB(A) printing			
Main control	Integrated main computer for the main control of the Minilab Operating system Windows 2000, at least SP4 Touchscreen monitor (LCD or CRT) as user interface			
Optional accessories	Additional table for a larger working area			
	External label printer for price labels			
	Film carriers for different negative sizes and slides (only d-lab.2/2plus)			
	LCD touch-screen monitor			
	Options for further image processing functions			
Space requirements for operation and service	Right	600 mm		
	Left	1,100 mm		
	Front	900 mm		
	Minimum distance to the wall:			
	for operation	150 mm		
	for service	600 mm		

Production capacity	Film format 135-24				
Print format (mm)	89 x 127	102 x 152	127 x 178	203 x 305	305 x 457
Print format (inch)	3.5 x 5	4 x 6	5 x 7	8 x 12	12 x 18
Applies to d-lab.2					
Prints/h (actual)	1250	1200	1000	450	
Orders (incl. index print)	50	48	40	18	
Applies to d-lab.2plus					
Prints/h (actual)	1.800	1.700	1.000	500	240
Orders (incl. index print)	72	68	40	20	10
	Film format IX240-25				
Paper width (mm)	89	102			
Paper width (inch)	3.5	4			
Applies to d-lab.2					
Orders (incl. index print)	32	30			
Applies to d-lab.2plus					
Orders (incl. index print)	40	35			
	Digital images, file print from CD-ROM				
Print format (mm)	89 x 127	102 x 152	114 x 152	127 x 178	203 x 305
Print format (inch)	3.5 x 5	4 x 6	4.5 x 6	5 x 7	8 x 12
Applies to d-lab.2					
Prints/h (actual)	1200	1100	—	900	450
Applies to d-lab.2plus/ netlab.2plus					
Prints/h (actual)	1800	1700	1500	1000	500

Interfaces	1 GB Ethernet connection for data exchange and connection of an external workstation or a lab network Modem Label printer for price labels
Ambient conditions	Ambient conditions for storage / transport: Temperature -50 °C to +60 °C Relative humidity 15% to 90% Ambient conditions for operation: Room temperature +15 °C to +30 °C Relative humidity 15% to 85% Maximum ambient light: Printer / Paper Processor 10,000 Lux Paper magazines 20,000 Lux
Chemical waste	250–375 ml waste per square meter of developed paper (1 m ² roughly corresponds to 65 prints of size 10x15 (4x6")) The exact value depends on the set replenishment rate.

8.3 Main Computer

Operating system	Windows 2000 OEM English, at least SP4
Mainboard CPU	Applies to d-lab.2 GA-8GE800 PRO Intel Pentium IV>2.5GHz 512 MB RAM
Motherboard	Applies to d-lab.2plus and netlab.2plus Dual Processor Motherboard 2x Intel Xeon 2.8 GHz 512 MB RAM
Image Processing Board	To generate the digital images
Hard disk capacity	≥ 40 GByte
Graphics board	Applies to d-lab.2 Onboard 82845G graphic controller Applies to d-lab.2plus and netlab.2plus Resolution: 1,024x768 pixels Image recurrence frequency: >75Hz
Drives	Applies to d-lab.2 Integrated drives for floppy disk, ZIP, CD-ROM/DVD, and memory cards (PCMCIA, Compact Flash, MicroDrive, SmartMedia, Memory Stick, SD/MMC memory card) Applies to d-lab.2plus and netlab.2plus Integrated FDD External drive bay with CD-ROM, Zip, 5-fold PCMCIA drive (PCMCIA, Compact Flash, , MicroDrive, Smart Media, Sony Memory Stick, SD-memory board) connected to the main computer.

Network connection 1	Applies to d-lab.2 1000 Mbit/s for external network connection
	Applies to d-lab.2plus and netlab.2plus 1000 Mbit/s onboard for external network connection
Network Board 2	100 Mbit/s onboard for internal communication
Timer Board	To control the switch-on and switch-off procedures

8.4 Prescanner / Scanner

Applies only to d-lab.2/2plus

Resolution for negative size 135	Prescanner: approx. 500 pixels per color
	Main scanner: approx. 6,000,000 pixels per color
Filter	Optimized filter set for negative films
	Optimized filter set for slides (optional)
Sensor type	Monochrome CCD sensor 2k x 3k pixels

8.5 Printer

Laser recorder	<p>Exposure by a laser recorder</p> <p>Paper transport speed 67 mm/s</p> <p>Scanning width 305 mm / 12 inches</p> <p>Resolution 400 dpi</p> <p>Laser wavelength</p> <p>gas laser d-lab2: Type 8060/260 d-lab.2plus: Type 8060/261:</p> <p>Blue 458 nm Green 514 nm Red 685 nm</p> <p>Laser wavelength</p> <p>solid state laser d-lab2: type 8060/803, 8060/804, 8060/270, 8060/272 and 8060/157+8060/255 d-lab.2plus: type 8060/813, 8060/814, 8060/271, 8060/273 and 8060/158+8060/255 netlab.2plus: type 8060/505:</p> <p>Blue 473 nm Green 532 nm Red 685 nm</p>
Paper magazines	<p>2 Paper magazines</p> <p>Applies to d-lab.2</p> <p>RH side: up to 305 mm / 12 inch paper width LH side: up to 210 mm / 8.25 inch paper width</p> <p>Applies to d-lab.2plus and netlab.2plus</p> <p>RH and LH side: up to 305 mm / 12 inch paper width</p> <p>Maximum paper length when using AgfaPhoto Splendix Paper:</p> <p>at a paper width up to 8.25 inch: 183 m for paper widths above 8.25 inches: 91.5 m</p> <p>Maximum paper length when using AgfaPhoto Sensatis Paper:</p> <p>at a paper width up to 8.25 inch: 158 m for paper widths above 8.25 inches: 79.0 m</p>
Paper transport	<p>Single sheet transport on one track, paper cut prior to the exposure</p> <p>Sheet centering</p> <p>Lane distributor to distribute the exposed paper on several tracks in the Paper Processor</p>

8.6 Paper Processor

Space requirement	Length: 1,160 mm (incl. sorter 1,560 mm) Width: 880 mm Height: 1,450 mm (opened 1,860 mm)					
Floor space for operation / service	Right: 600 mm Distance to the wall: 150 mm (operation) / 600 mm (service)					
Processor type	Paper Processor for transport on several tracks (depending on the format) Automatic replenishment system Docking System for automatic replenisher tank filling Astor system for reduction of chemical waste and water consumption Automatic rinsing of the crossovers to avoid crystalline deposits 1 CD, 1 BX and 4 SB tanks Integrated print sorter 6" Sorter: Print formats up to 152 mm (6 inch) length are stacked in the sorter, bigger formats are not sorted and placed on the tray for large print formats. 10" Sorter: Print formats up to 254 mm (10 inch) length are stacked in the sorter, bigger formats are not sorted and placed on the tray for large print formats. Integrated Densitometer					
Process specifications						
Solution	CD		BX		SB	
Temperature	40 °C ± 0.3		38 °C ± 3		37 °C ± 3	
Process time (in seconds)	33		33		total 69	
Replenishment rates (ml / m ²) (recommended values when using the AgfaPhoto Easy Paper Box 110 chemicals)	Chemicals	Water	Chemicals	Water	Chemicals	Water
Standard	41	10	68	0	41	159
increased	Factor 1.4	14	Factor 1.4	0	Factor 1.4	223
maximum	Factor 1.6	16	Factor 1.6	0	Factor 1.6	254
Tank	– Automatic preparation of replenisher solutions – Automatic mixing – Automatic water replenishment					
Tank capacity in liters	CD		BX		SB	
Processing tank	18.4		18.4		4 x 11.2	
Replenisher tank	4.5		7.5		4.5	
Effluent tank	10		10		7 (for Astor system)	

Transport system	<ul style="list-style-type: none"> Two-lane transport by means of rollers Single sheet: <ul style="list-style-type: none"> minimum length 117 mm (Applies to d-lab.2) 89 mm (Applies to d-lab.2plus and netlab.2plus) maximum width 305 mm Sheet distribution: <ul style="list-style-type: none"> 2 lanes up to 203 mm (8 inch) paper width (up to 10x15 on alternating lanes) 1 lane up to 305 mm (12 inch) paper width
Paper transport speed	approx. 34 mm/s
Dryer	Warm air drying

8.7 Heat Emission

Input voltage (V)	200	210	220	230	240
Laser (machine with gas laser) ¹⁾ (kcal/h)	860	860	860	860	860
no value for machine with solid state laser ¹⁾					
Solution heater Developer solution (CD) (kcal/h)	251	277	304	332	362
Solution heater Bleachfix solution (BX) (kcal/h)	251	277	304	332	362
Solution heater Stabilizer solution (SB1-4) (kcal/h)	597	658	723	790	860
Dryer heater (kcal/h)	2,867	3,161	2,911	3,181	3,464
Total for machine with gas laser ¹⁾ (kcal/h)	4,826	5,233	5,101	5,495	5,907
Total for machine with solid state laser ¹⁾ (kcal/h)	3,966	4,373	4,241	4,635	5,047

¹⁾ Machines with gas laser: d-lab.2: type 8060/260

d-lab.2plus: type 8060/261

²⁾ Machines with solid state laser: d-lab.2: type 8060/803, 8060/804, 8060/270, 8060/272 and 8060/157+8060/255

d-lab.2plus: type 8060/813, 8060/814, 8060/271, 8060/273 and 8060/158+8060/255

netlab.2plus: type 8060/505

8.8 Other Data

Operating conditions: see ⇒ *Operating conditions*

Storage and Transport see ⇒ *Conditions for storage and transport*

9 Index

1		E	
1-phase operation	15	Easy paper Box	37
3		Electrical requirements	43
3-phase operation	15	Emissions during operation	11
A		Exhaust	12
Accessories (optional)	43	F	
Additional parts / hardware / software, ordered	24	Film and negative formats (only d-lab.2/2plus)	43
Air conditioning	11	Floor	
Ambient conditions	45	conditions	7
Ambient light	13	load capacity	7
B		G	
basic	25	Graphics board	45
C		Grounding	16
Checklist	17	I	
accessories / hardware / software	21	Image Processing Board	45
consumables	21	Installation date	24
customer	23	Interfaces	45
supply facilities	18	L	
training	20	Laser recorder	47
transport	17	M	
Chemical waste	45	Machine	
Chemicals		storage and transport	13
legal regulations	10	Machine dimensions packed	
safety notes	10	d-lab.2	2
Temperatures	48	d-lab.2plus	2
Connection voltages and connection types	15	netlab.2plus	2
Consumables	37	Machine dimensions unpacked	
Consumables, ordered	24	d-lab.2	3
D		d-lab.2plus	4
Dimensions	41	netlab.2plus	5
Door opening		Main computer	45
minimum size for transport	7	Main control	43
Drives	45	Minilab	
Dryer	49	Machine versions	41

N		machine	8
Network board	46	operation, service	8
Network connection	13	Room height	7
Noise level	13, 43	Room lighting	9
O		Room temperature	13
Operating conditions	13	Room ventilation	11
machine storage	13	S	
transport	13	select	25
Operating system	45	Slide formats (only d-lab.2/2plus)	43
Operation Manuals	37	Space requirement	
Operation site	7	operation, service	43
Options	43	Storage (paper)	8
Order numbers		Storage and transport (machine)	13
consumables	37	Supply systems	
Minilab		contractors	23
d-lab.2 basic	28	T	
d-lab.2 select	26	Tank capacity	48
d-lab.2/2plus Spezial-Version 70mm	34	Technical data	
d-lab.2plus basic	32	Complete system	41
d-lab.2plus select	30	electrical requirements	43
netlab.2plus basic	35	heat emission	49
Operation Manuals	37	Main computer	45
remote service	36	noise level	43
P		Paper magazines	47
Paper magazines		Paper Processor	48
Technical data	47	prescanner / scanner	46
Paper transport		Printer	47
Paper Processor	49	Temperatures	
Printer	47	Chemical solutions	48
Paper, storage	8	Timer Board	46
Preinstallation measures	1	Transport system	49
Print sizes	43	Type numbers	41
Process specifications	48	W	
Production capacity	44	Water connection	9
R		Weight empty	
Remote service	36	d-lab.2	6
Replenishment rates		d-lab.2plus	6
Default values	48	netlab.2plus	6
Required space		Weight filled	

d-lab.2	6	netlab.2plus	2
d-lab.2plus	6	Weight unpacked	
netlab.2plus	6	d-lab.2	6
Weight packed		d-lab.2plus	6
d-lab.2	2	netlab.2plus	6
d-lab.2plus	2		

